

Recovery Plan Action Status

Plan Name: Lakeside Daisy

Plan Status: Final

Plan Date: 19-Sep-90

Lead Agency: USFWS

Lead Office: Columbus Ecological Services Field Office

(614)

416-8993)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Lakeside daisy (Hymenoxys herbacea)	2	1.21	Acquisition and management of 475 acres of essential habitat containing the population center at the Marblehead Quarry, Ottawa County, OH.	Not Started			U.S. Fish and Wildlife Service, Endangered Species Division, Ohio Department of Natural Resources	Acquisition	Labor type not yet selected	Cost est. FY 1991 to FY 1993 is \$229.6K per FY for each partner. The center of the population has been quarried and this Recovery Criterion no longer seems feasible. Other suitable habitat may be used in place of this land.
Lakeside daisy (Hymenoxys herbacea)	2	1.22	Protection of 465 acres of Marblehead Quarry through easements, restrictive covenances, or leases.	Not Started			U.S. Fish and Wildlife Service, Endangered Species Division, Ohio Department of Natural Resources	Acquisition: General	Labor type not yet selected	Costs unknown. Quarry continues to operate throughout the property in cycles. Land east of Alexander Pike and adjacent to Lakeside Daisy Nature Preserve would be a good candidate.

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Lakeside daisy (Hymenoxys herbacea)	2	3.1	Annual census on restored sites.	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Endangered Species Division, Will County Forest Preserve District, Illinois Department of Conservation	Research: Population Surveys	Labor type not yet selected	FWS R3 DES, IDOC Cost est. FY 1991 to FY 1995 is \$1K per FY; FPDWC Cost est. FY 1991 to FY 1995 are \$2.5K per FY. FPD higher costs due to larger sites. **FY 1995 Cost estimates actually covers 1995-2015 annual costs for site management and population, demographic and community monitoring for the recommended listing period (excluding FY 1991-1994) and the recommended 10 year monitoring period after delisting.
Lakeside daisy (Hymenoxys herbacea)	3	3.1	Annual site reconnaissance	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Endangered Species Division, Ohio Department of Natural Resources, Will County Forest Preserve District, Illinois Department of Conservation	Management: General	Labor type not yet selected	FWS R3 DES, ODNR Cost est. FY 1991 to FY 1995 are \$1K per FY; FPDWC Cost est. FY 1991 to FY 1995 are \$1K per FY; IDOC Cost est. FY 1991 to FY 1995 are \$500 per FY. **FY 1995 Cost estimates actually covers 1995-2015 annual costs for site management and population, demographic and community monitoring for the recommended listing period (excluding FY 1991-1994) and the recommended 10 year monitoring period after delisting.

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Lakeside daisy (Hymenoxys herbacea)	3	3.2	Demographic monitoring.	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Endangered Species Division, Will County Forest Preserve District, Illinois Department of Conservation	Research: Demographic Studies	Labor type not yet selected	FWS R3 DES, ODNR Cost est. FY 1991 to FY 1995 are \$4K per FY; FPDWC Cost est. FY 1991 to FY 1995 are \$4K per FY; IDOC Cost est. FY 1991 to FY 1995 are \$1.5K per FY. Cost vary due to differences in site size, site number and number of plants. **FY 1995 Cost estimates actually covers 1995-2015 annual costs for site management and population, demographic and community monitoring for the recommended listing period (excluding FY 1991-1994) and the recommended 10 year monitoring period after delisting.

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Lakeside daisy (Hymenoxys herbacea)	3	3.3a	Plant community monitoring	Not Started			U.S. Fish and Wildlife Service, Endangered Species Division, Ohio Department of Natural Resources	Research: General	Labor type not yet selected	FWS R3 DES, ODNR Cost est. FY 1991 and FY 1995 are \$1K and \$250*** respectively; IDOC Cost est. FY 1991 and FY 1995 are \$1K and \$250*** respectively; FPDWC Cost est. FY 1991 and FY 1995 are \$2K and \$500*** respectively. **FY 1995 Cost estimates actually covers 1995-2015 annual costs for site management and population, demographic and community monitoring for the recommended listing period (excluding FY 1991-1994) and the recommended 10 year monitoring period after delisting. Costs are for baseline sampling only; resample at 5 year intervals (**Assuming 5 sampling periods at 5-year intervals from 1995-2015; costs are annualized).
Lakeside daisy (Hymenoxys herbacea)	3	3.3b	Plant community monitoring	Not Started			Will County Forest Preserve District, Illinois Department of Conservation	Research: General	Labor type not yet selected	
Lakeside daisy (Hymenoxys herbacea)	2	4.1a	Develop site management plan.	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Endangered Species Division, Ohio Department of Natural Resources	Management	Labor type not yet selected	FWS R3 DES, ODNR Action duration is "partial"; Cost est. is \$250; IDOC Cost est. is \$250; FPDWC Cost est. is \$500.
Lakeside daisy (Hymenoxys herbacea)	2	4.1b	Develop site management plan.	Ongoing Current	FY 2007		Will County Forest Preserve District, Illinois Department of Conservation	Management: Habitat Maintenance and Manipulation	Labor type not yet selected	

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Lakeside daisy (Hymenoxys herbacea)	3	4.2a	Primary site management actions	Ongoing Current			U.S. Fish and Wildlife Service, Endangered Species Division, Ohio Department of Natural Resources	Management: General	Labor type not yet selected	FWS R3 DES, ODNR Cost est. FY 1991 to FY 1995 are \$500 per FY; IDOC Cost est. FY 1991 to FY 1995 are \$1K per FY; FPDWC Cost est. FY 1991 to FY 1995 are \$2K per FY. Costs vary due to differences in site size and work needed. **FY 1995 Cost estimates actually covers 1995-2015 annual costs for site management and population, demographic and community monitoring for the recommended listing period (excluding FY 1991-1994) and the recommended 10 year monitoring period after delisting.
Lakeside daisy (Hymenoxys herbacea)	3	4.2b	Primary site management actions	Ongoing Current			Will County Forest Preserve District, Illinois Department of Conservation	Management: General	Labor type not yet selected	
Lakeside daisy (Hymenoxys herbacea)	2	4.31	Exotic species control	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Endangered Species Division, Will County Forest Preserve District	Management: Habitat Maintenance and Manipulation	Labor type not yet selected	FY 1995 Cost estimates actually covers 1995-2015 annual costs for site management and population, demographic and community monitoring for the recommended listing period (excluding FY 1991-1994) and the recommended 10 year monitoring period after delisting.
Lakeside daisy (Hymenoxys herbacea)	2	4.32	Herbivore control.	Not Started			U.S. Fish and Wildlife Service, Endangered Species Division, Will County Forest Preserve District	Management: Depredation Control	Labor type not yet selected	

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Lakeside daisy (Hymenoxys herbacea)	3	5.1	Investigate taxonomic status	Complete			U.S. Fish and Wildlife Service, Endangered Species Division	Research: Taxonomic Studies	Labor type not yet selected	Species changed from H. acaulis var. glabra to its own species, herbacea.
Lakeside daisy (Hymenoxys herbacea)	3	5.2	Response to burning at restored sites.	Ongoing Current			U.S. Fish and Wildlife Service, Endangered Species Division, Will County Forest Preserve District, Illinois Department of Conservation	Management: Habitat Maintenance and Manipulation	Labor type not yet selected	FWS R3 DES, IDOC Cost Est. FY 1991 to FY 1993 are \$1K per FY for each partner; FPDWC Cost est. FY 1991 to FY 1993 are \$2K per FY.
Lakeside daisy (Hymenoxys herbacea)	3	5.3	Investigate aspects of seed ecology and role of seed bank	Not Started			U.S. Fish and Wildlife Service, Endangered Species Division	Research: General, Research: Propagation	Labor type not yet selected	
Lakeside daisy (Hymenoxys herbacea)	3	6	Provide appropriate public information.	Ongoing Current	FY 2008		U.S. Fish and Wildlife Service, Endangered Species Division	Other: Information and Education	Labor type not yet selected	